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CLAIMS

- 1 1. A method for controlling Quality of Service (QoS) levels/service levels within a
2 wired network associated with wireless Local Area Network (LAN), the wired network having
3 different paths for carrying information frames received from at least one mobile terminal user,
4 comprising the steps of:
5 receiving in the network at least one frame of information;
6 determining a QoS level/service level for the received frame;
7 associating with the received frame an identifier that identifies a path through the network
8 having a transmission capability sufficient to provide the determined QoS level/service level; and
9 routing the frame in the network in accordance with the associated identifier.
- 1 2. The method according to claim 1 wherein the QoS level/service level is
2 determined from the identity of the mobile terminal user that originated the frame.
- 1 3. The method according to claim 1 wherein the QoS level/service level is
2 determined in accordance with a QoS level/service level request received from the mobile
3 terminal user.
- 1 4. The method according to claim 1 wherein the step of receiving the information
2 frame comprises the step of receiving an IP packet in an Ethernet Frame.
- 1 5. The method according to claim 4 wherein the step of associating the identifier
2 with the received frame comprises the step of associating a Virtual Local Area Network (VLAN)
3 number with the frame.
- 1 6. The method according to claim 1 wherein the step of routing the frame comprises
2 the step of routing the frame to one of a plurality of separate destinations.
- 1 7. The method according to claim 1 wherein the step of routing the frame comprises
2 the step of routing the frame to one destination across a selected one of a plurality of interfaces.

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1 8. A wireless Local Area Network (LAN) for routing received information frames,
2 comprising:

3 at least one Access Point for receiving radio traffic from at least one mobile terminal and
4 for communicating such traffic in the form of at least one information frame:

5 an administrative gateway for establishing a Quality of Service level/service level for the
6 one information frame and for instructing the Access Point to assign an identifier to the frame in
7 accordance with the QoS level/service level established for the frame; and

8 a switch for routing the frame to a destination selected in accordance with the assigned
9 identifier.

1 9. The wireless LAN according to claim 8 wherein the switch comprises a Virtual
2 Local Area Network (VLAN) capable Ethernet switch and wherein the identifier assigned to the
3 frame comprises a VLAN number.

1 10. The wireless LAN according to claim 8 further including a plurality of routing
2 gateways, each comprising a destination for the frame routed by the switch in accordance with
3 the identifier assigned to the frame.

1 11. The wireless LAN according to claim 8 further including a routing gateway,
2 having a plurality of interfaces, each interface providing a path for carrying a frame routed by the
3 switch in accordance with the identifier assigned to the frame.